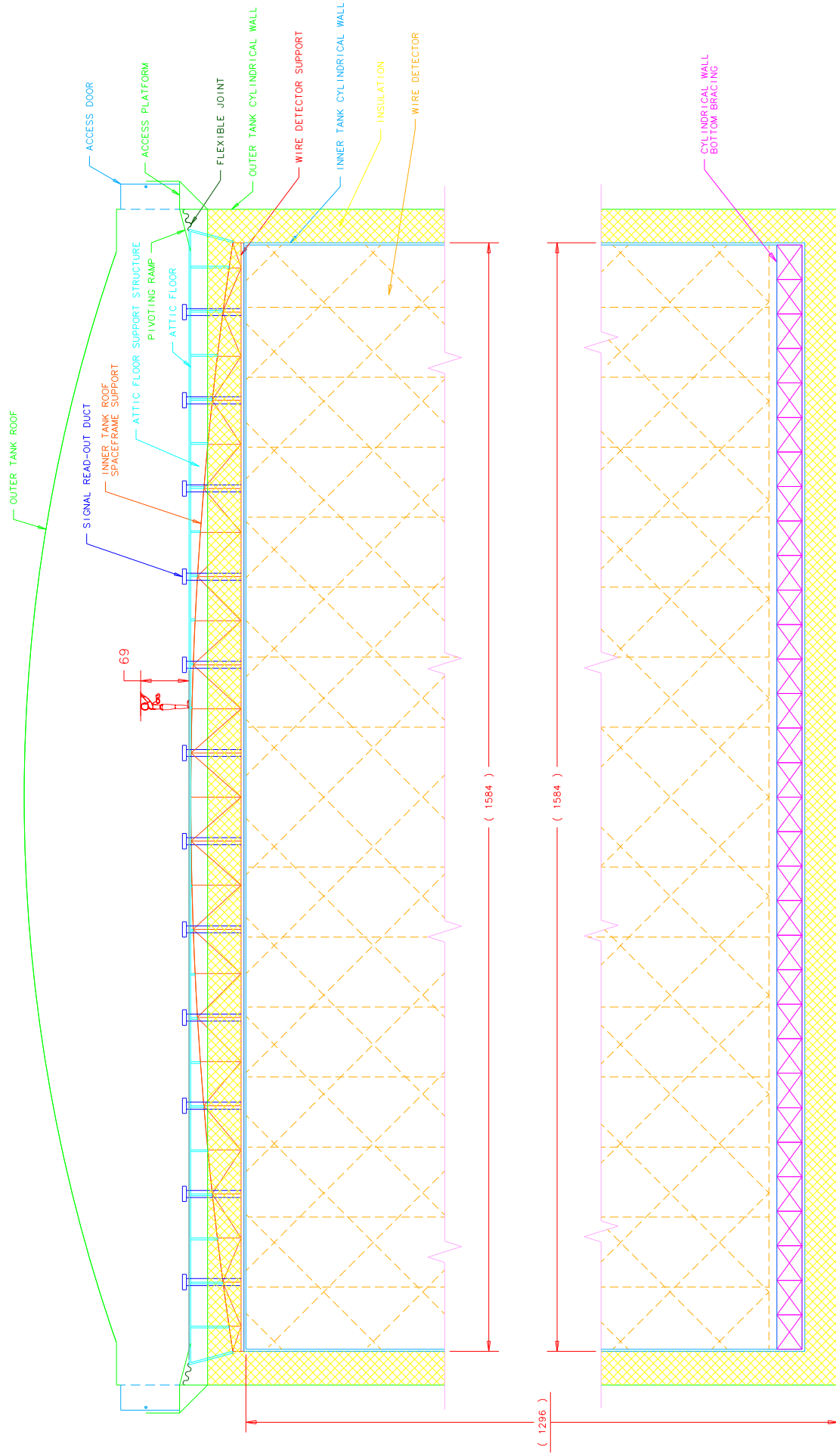


## **Flare Tank Layout Options**

The first sketch shows a generic description of the main items associated with the layout of the top of the tank. The items are not structurally sized: they are just pictorial representations for schematic purposes. Access covers could also be used on the screened porch top version.

The sketches that follow show the alternatives for the layout of the top of the tank and they precede a list of pros and cons of each option. The ratings on the list are made based on the assumption that temporary measures will be in place during the construction of the detector to make the assembly feasible. It might be necessary to increase the grading levels from the 3 (lower, medium, and higher) currently used. Items are worded so "lower" is always better.



# CLOSED ATTIC TOP

VENT

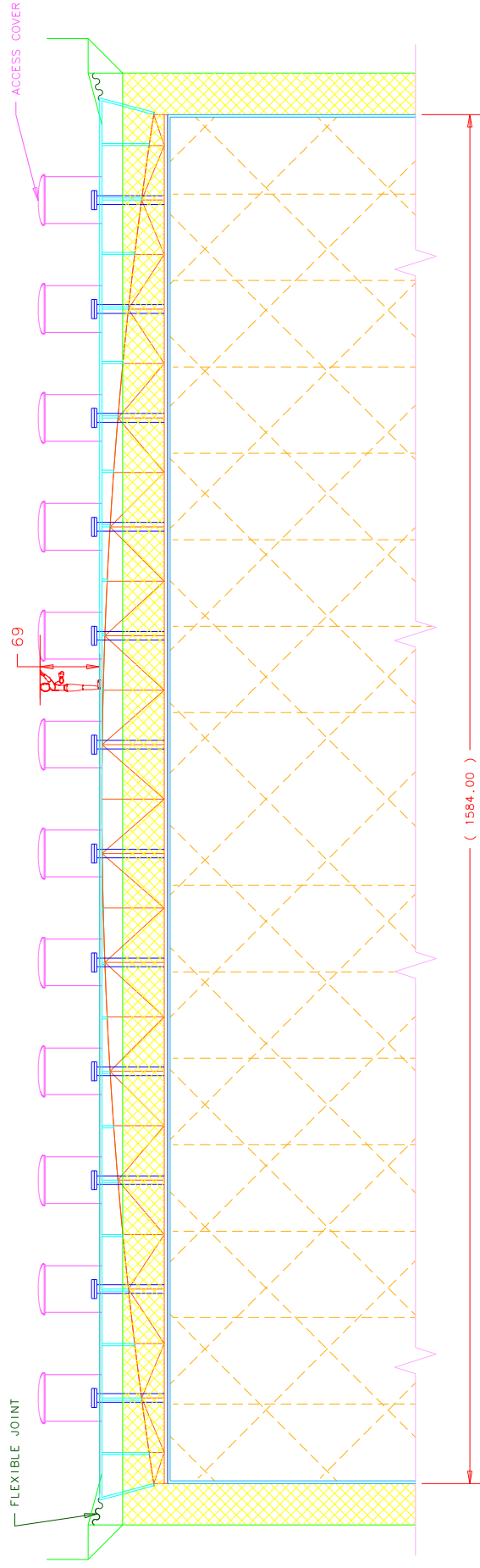
GRILL ALL AROUND

FLEXIBLE JOINT

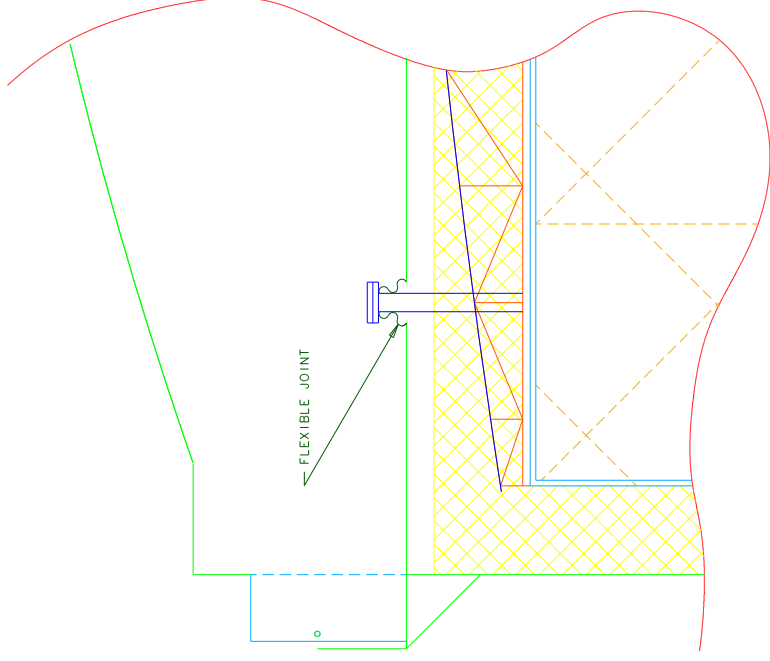
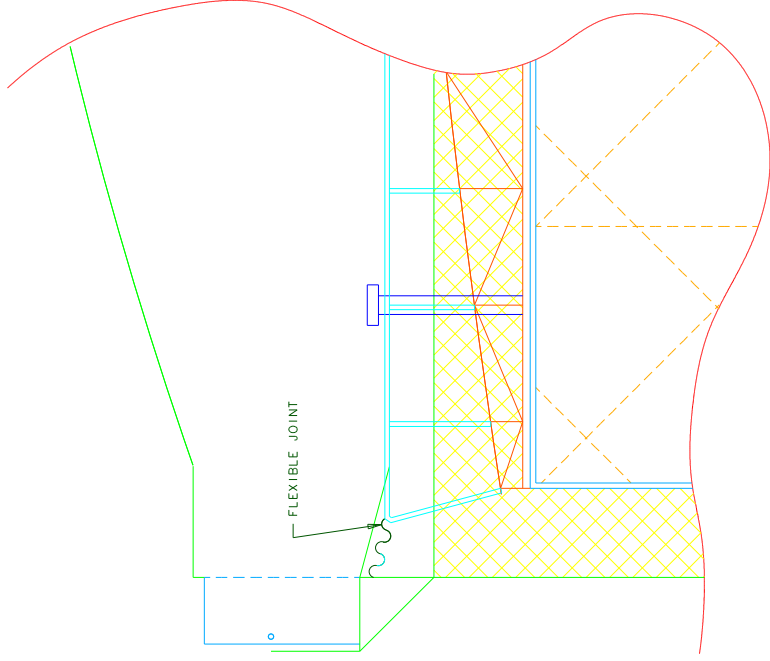
69

( 1584.00 )

# SCREENED PORCH TOP

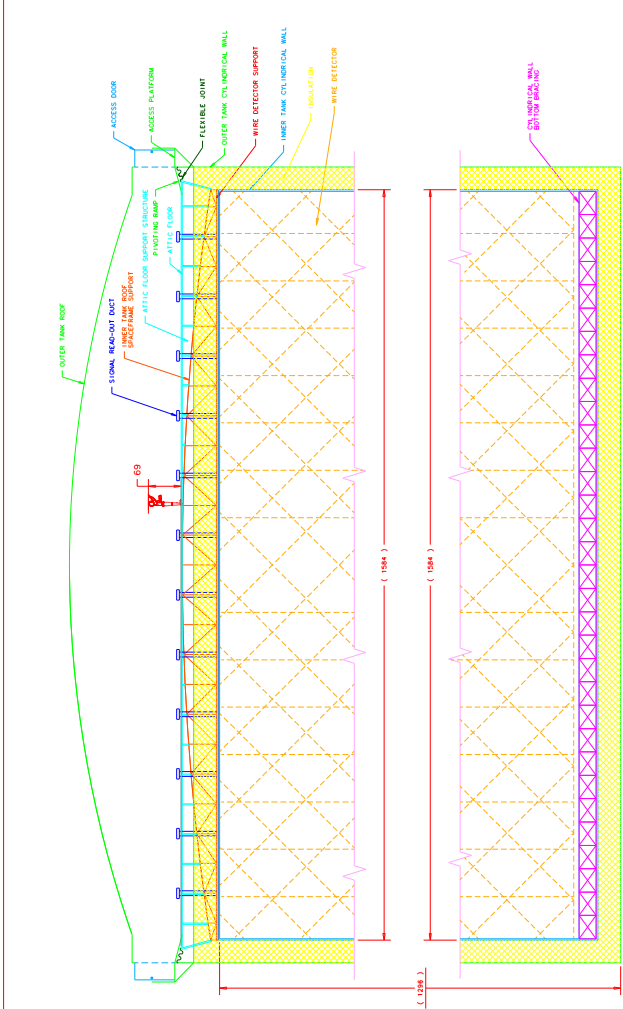


OPEN TOP

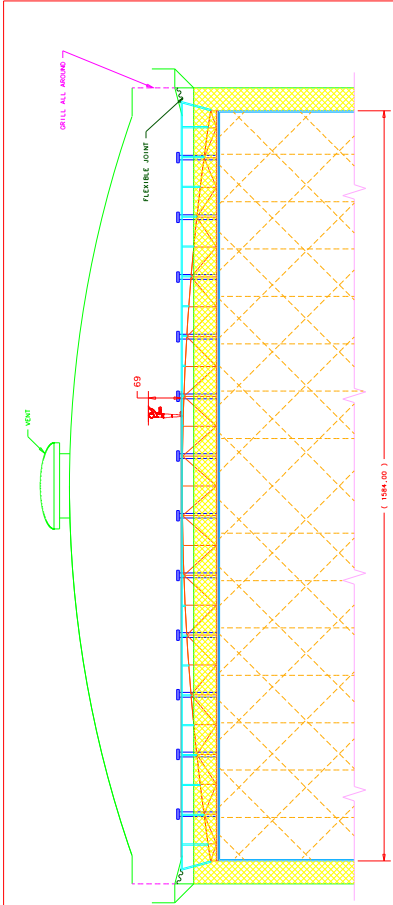


# FLEXIBLE JOINT OPTIONS

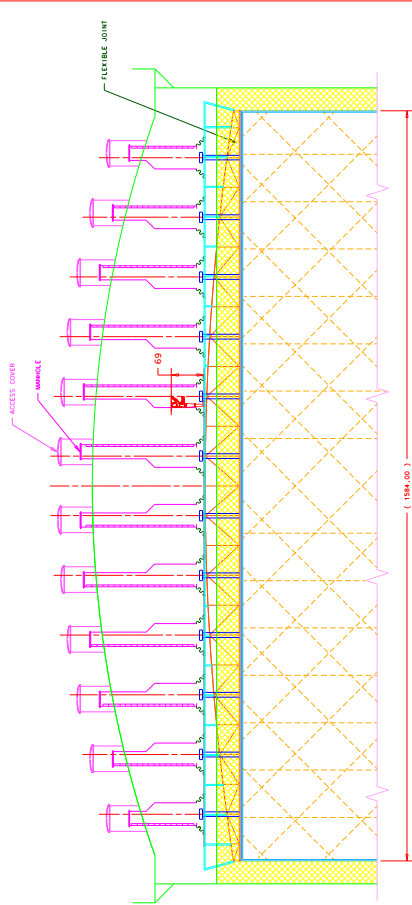
FLARE TANK LAYOUTS



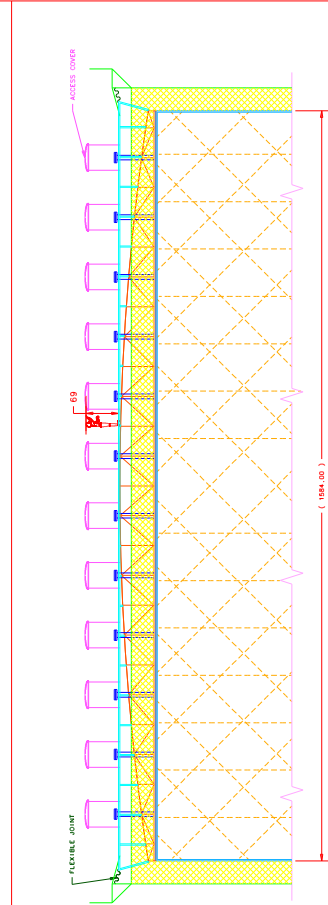
CLOSED ATTIC TOP



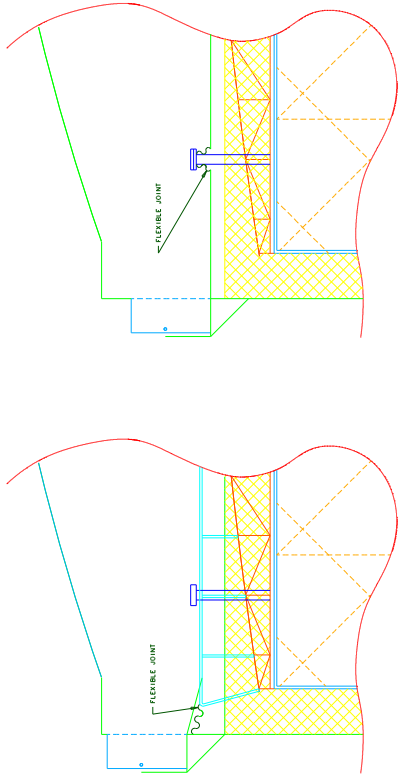
SCREENED PORCH TOP



TOP WITH MANHOLES



OPEN TOP



FLEXIBLE JOINT OPTIONS

Top layout alternative	Closed attic top	Screened porch top	Top with manholes	Open top
Structural complexity	medium	medium	higher	lower
Fabrication cost	medium	medium	higher	lower
Fabrication difficulty level	medium	medium	higher	lower
Difficulty level to access to electronics	lower	lower	higher	medium
Difficulty level to access top area	medium	medium	higher	medium
Level of exposure of equipment and personnel to rain	lower	medium	medium	higher
Level of exposure of equipment and personnel to snow	lower	medium	medium	higher
Level of exposure of equipment and personnel to heat	lower	medium	medium	higher
Level of exposure of equipment and personnel to wind	lower	higher	lower	medium
Difficulty of access during rain	lower	medium	higher	higher
Difficulty of access during snow	lower	medium	higher	higher
Difficulty of access during heat	lower	lower	medium	higher
Difficulty of access during wind	lower	higher	higher	medium
ODH risk level	higher	lower	medium	lower
Liquid argon contamination risk level	lower	higher	medium	higher
Liquid argon leak risk level	lower	higher	lower	medium
Level of difficulty to assembly the wire detector	lower	lower	medium	higher
Level of complexity of assembly of the read-out system	lower	medium	higher	higher